

ABSTRACT

A data management technique for managing accesses to data at a shared storage system includes a filter at the storage system. The filter is coupled to a configuration table, which identifies which of a number of coupled host processors have accesses to each of the resources at the device. During operation, requests received from the host devices are filtered by the filter, and only those requests to resources that the individual host devices have privilege to access are serviced. Advantageously, data security is further enhanced by authenticating each of the requests received by the storage system to verify that the host processor that is represented as forwarding the request is the indicated host processor. In addition, transfers of data between the storage system and the host processor may be validated to ensure that data was not corrupted during the data transfer.

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